Bruhat Bangalore Mahanagara Palike

Excecutive Engineer Yelahanka Project Division

Name of Work: Construction of CC Drains and Roads in 2nd Main and 3rd Main and Surrounding Roads of RK Hegdenagar, Dasarahalli Village, Rachenahalli Village and Saripalya Village in Ward No.06

1	Construction of CC Drains and Roads in RK Hegdenagar 2nd Main and Surrounding Roads in Ward No.06
2	Construction of CC Drains and Roads in RK Hegdenagar 3nd Main and Surrounding Roads in Ward No.06
3	Construction of CC Drains and Roads in Dasarahalli Village in Ward No.06
4	Construction of CC Drains and Roads in Rachenahalli Village in Ward No.06
5	Construction of CC Drains and Roads in Saripalya Village in Ward No.06

Quantity Abstract (Estimate Wise)

Sl No	Description of Item	Unit	2nd main	3rd main	Dasarahalli Village	Rachenahalli Village	Saripalya Village	Total Quantity as per Estimation	Rate, Rs	Amount, Rs
			1	2	3	4	5			
1	Removing & Refixing stone slabs of drains and pointing in C.M (1:3)	Sqm		893.93	413.55	485.84		1793.32	111.30	199596.99
2	Earthwork in execavation for foundation of structure like culverts, retaining wall etc., as per drawing and technical specification, including setting out, construction of shoring and bracing, dressing of sides and bottom, back filling with approved material, disposal of balance earth as per specification, including cost of labour, HOM etc., complete. In all kinds of soil by manual means.	Cum	1380.84	760.14	1411.00	999.34	1241.20	5792.52	273.40	1583674.42
3	Providing granite slabs of selected quality roughly dressed having a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete	Sqm		895.62		523.22		1418.84	742.00	1052775.57
4	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications.	Cum	410.58	112.02	416.22	121.85	448.52	1509.18	5421.90	8182606.78

Sl No	Description of Item	Unit	2nd main	3rd main	Dasarahalli Village	Rachenahalli Village	Saripalya Village	Total Quantity as per Estimation	Rate, Rs	Amount, Rs
			1	2	3	4	5			
5	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification.	Cum	198.59	27.94	33.35	168.11	93.87	**521.85**	**7070.20**	**3689614.72**
6	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500.	Tn	13.90	2.24	3.34	12.23	7.48	**39.19**	**73992.24**	**2899756.66**
7	KSRB 5-11 : Providing and constructing load bearing wall with having block density not less than 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials labour charegs, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4 .-do- solid concrete blocks of size 400x150x200 mm	Sqm		666.80	530.12	724.80	211.60	**2133.32**	**1010.18**	**2155037.20**
8	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge.	Sqm	468.90	1538.10	771.81	1150.20	477.15	**4406.16**	**2337.00**	**10297188.91**
9	Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge.	Sqm		56.25	69.00	35.10	63.00	**223.35**	**5418.00**	**1210110.30**

Sl No	Description of Item	Unit	2nd main	3rd main	Dasarahalli Village	Rachenahalli Village	Saripalya Village	Total Quantity as per Estimation	Rate, Rs	Amount, Rs
			1	2	3	4	5			
10	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications.	Cum	9.92	83.35	48.56	52.68	17.38	**211.89**	**5747.32**	**1217793.89**
11	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete.	Nos	1102.00	3704.00	978.00	2840.00	671.00	**9295.00**	**432.48**	**4019901.60**
12	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.	Sqm	198.40	666.80	176.00	511.20	120.80	**1673.20**	**39.22**	**65622.90**
13	KSRB 15-19.2 : Providing and applying spray painting in one coat (excluding priming coat) over concrete / masonry / asbestos cement sheet /plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.	Sqm	198.40	666.80	176.00	511.20	120.80	**1673.20**	**58.30**	**97547.56**
14	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications.	Cum	164.40		184.56		292.30	**641.26**	**1994.92**	**1279262.40**

Sl No	Description of Item	Unit	2nd main	3rd main	Dasarahalli Village	Rachenahalli Village	Saripalya Village	Total Quantity as per Estimation	Rate, Rs	Amount, Rs
			1	2	3	4	5			
15	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thickork as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications.	Cum	316.80		324.28		387.32	1028.39	5210.96	5358912.18
									Construction Cost	43309402.08
									12% GST	5197128.25
									DPR and PMC Cost Including GST	990500.00
									Sub Total	49497030.33
									Miscellaneous	2969.67
									Grand Total	49500000.00

Administrative Approval
Accorded For Rs. 495 00 lakhs
Head of A/C P3727
CER NO : 58 Dt: 07/02/2020
E.E. (Project)

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019 and Data Rates.

Technical Sanction
Accorded For Rs495 lakhs only
Head of A/C P3727
CER NO : 175 Dt: 06.11.2019

Assistant Engineer
Project Division Yelahanka
BBMP Bangalore

Assistant Exec Engineer
Project Division Yelahanka
BBMP Bangalore

TA — SE (YNK)

Executive Engineer 4/11/19
Project Division Yelahanka
BBMP Bangalore